

## PRODUCT PORTFOLIO MEDICAL GAS NETWORK

- Copper pipes
- Copper parts (elbows, tees, couplings)
- Brass parts (nipples, elbows, caps, unions, adapters)
- Clamps
- Railways
- Tapes
- Welding materials
- Shut off/electromagnetic/non-return/safety valves
- Antistatic tubes
- Special tools



## CYLINDER STATIONS

Their purpose is to reduce the pressure of medical gases originating either from cylinders or vessels. Their operation could be pneumatic, electrical or manual, the available capacities of reducers are 50/75/160/170/180m<sup>3</sup>/h (440m<sup>3</sup>/h only for vessels) whereas the outlet pressure could be between 4 and 8bar. Optionally they may include integrated medical gas alarm panel.

- Manifolds-cylinder ramps
- Cylinder holders
- High pressure evacuation valves
- High pressure flexible tubes
- Pigtails
- Cylinders
- Vessels



## PATHOLOGY LABORATORY GAS SYSTEMS

According to Health Technical Memorandum (HTM 08-06), all laboratory gas systems should be discriminated from medical systems. For toxicity, flammability, corrosiveness and safety factors, those systems are being manufactured according to specific standards and from special materials.



## MEDICAL VACUUM SYSTEMS

Our company manufactures medical vacuum systems according to each project's specifications.

- Vacuum pumps (oil-lubricated/oil-free) of nominal capacity 6-635m<sup>3</sup>/h
- Vessels (vertical/horizontal) of capacity 270-5.000lt
- Antibacterial filters 48-900m<sup>3</sup>/h
- Electrical control panels



## MEDICAL AIR COMPRESSOR SYSTEMS

Our company manufactures medical air compressor systems according to each project's specifications

- Compressors (screw/scroll/piston), oil-lubricated or oil-free of nominal capacity 4-2500m<sup>3</sup>/h
- Vessels (vertical/horizontal) of capacity 50-5.000lt
- Filters/sterile filters
- Condensate separators/aftercoolers
- Dryers (cooling/adsorption/membrane)
- Condensate drains
- Water/oil separators
- Electrical control panels



# PRODUCT PORTFOLIO

## OXYGEN-NITROGEN GENERATORS

Pressure Swing Adsorption (PSA) is a low power consuming solution, efficient and reliable for onsite production of high purity medical oxygen. It uses the basic principle of passing air over adsorbent material which bound with nitrogen to leave rich stream of oxygen. Our company provides various solutions according to the size and needs of each hospital.



## ANAESTHETIC GAS SCAVENGING SYSTEMS

The suction and disposal to the environment of the redundant gases from the anesthetic equipment inside the operating theatres but also from the emitted anesthetic gases from patients in the stage of recovery, is being applied by using an automatic anesthetic gas scavenging disposal system (AGSS), through the AGSS outlets which are installed in various departments. Available solutions:

- Central systems of capacity 40-330m<sup>3</sup>/h
- Autonomous scavenging outlets
- Venturi apparatus



## MEDICAL GAS TERMINAL UNITS / OUTLETS

Outlets are installed at the final delivery points in a medical gas pipeline system. They are used by personnel to supply the various gases using special probes. They are available in accordance with the following norms:

- ENV 737-6
- AFNOR NF S 90-116
- DIN 13260-2
- BS 5682
- SS 875 24 30
- ISO 9170-2
- SANS 1409:2008
- UNI
- NIST EN 739



## SECOND STAGE CONTROL AND REDUCER PANELS / AREA VALVE SERVICE UNITS

Installed in wards in order to ensure normal pressure of the medical gases and provide the ability to shut off, check and maintain the local medical gas network. Provided for 1-6 gases with or without medical gas alarm panel.



## MEDICAL GAS ALARM SYSTEMS

The monitoring and alarm systems are used to provide all the important information to the control room. They indicate the pressure level of each gas (Low, Normal, High) whereas they can supply with information about a single medical station. Moreover, they are able to send useful data to a remote user.



# PRODUCT PORTFOLIO

## BED HEAD UNITS

Their aim is to provide all essential services (medical gases, electrical supply, lighting, nurse call, data, etc.) to the patient / nurse / doctor.

Biocombe has a broad range of models in horizontal / vertical / round / ceiling suspended configuration able to cover all needs of each single department.

## CEILING PENDANT ARMS

The ceiling pendants are being placed on the ceiling of intensive care units and operating theaters for grouping and providing all necessary electrical, data and medical gases services to the medical staff. They are available in various configurations and according to each project's needs.

- Without arm
- With one arm
- With two arms
- With electrical movement (one/two arms)
- With electrical-telescopic movement

## OPT CONTROL PANELS

OPT Control Panel, is the central device gathering all necessary control signals, alarms and information required in an Operating Theater.

## NURSE CALL SYSTEMS

The nurse call system is installed in a nursing unit. It helps patients/relatives/nurses/doctors to call a nurse in case of an emergency or any other need of a patient. Typically they are consisted of:

- Central station
- Handsets
- Room stations
- WC pull cords
- Corridor lights

## SECONDARY MEDICAL EQUIPMENT

- Hospital clocks
- Flowmeters
- Vacuum regulators
- Suction devices
- Carts
- IV stands
- Anaesthesia machines
- Pneumatic tube systems
- Emergency lighting-Fire detection-Gas detection systems
- OPT tables
- Hospital beds/cabinets
- OPT - Examination lights

